

# DARPAICE 2002 Symposium

Fally Casy



# Communications for Network Centric Targeting

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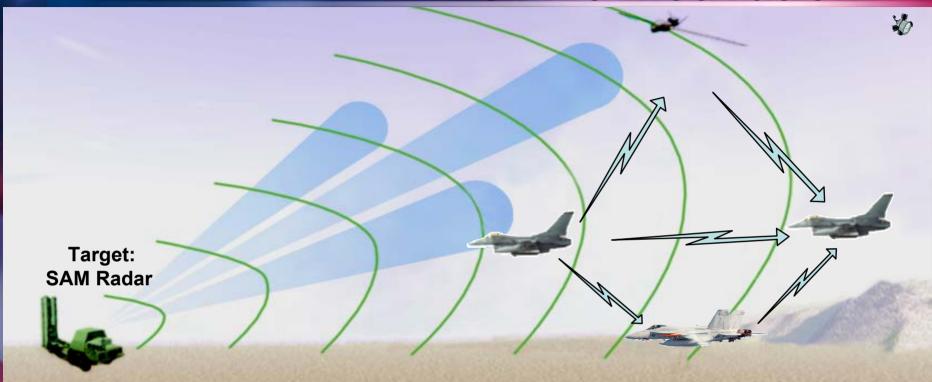
# Communications Infrastructure Investments







#### The AT3 Motivation



- Very Rapid, Very Precise Emitter Geolocation
- Platforms of Opportunity Highly Dynamic





#### Technical Performance Goals

Total system rate	10+Mbit/s
Single platform rate	2Mbit/s @ 100 nm
	500Kbit/s @ 200 nm
	220Kbit/s @ 300 nm
Latency	2 ms @ 100 nm
	6 ms @ 200 nm
	30 ms @ 300 nm
Number of platforms	200+
Platform separation	300 nm
Flexibility	Completely dynamic





### SIMPLE AS A CELL PHONE

**JTRS** 

INSTANT MESSENGER

MINIMAL SUPPORT INFRASTRUCTURE

CAPACITY AVAILABLE
WHERE NEEDED

**SECURE** 

TTNT

FAST AS ETHERNET

NO NEW HOLES
NO NEW CABLES

AIR-TO-AIR AND AIR-TO-GROUND

100% INTEROPERABLE WITH LINK 16

AD HOC MOBILE NETWORK





# Wireless Networking Technology for Tactical Aircraft

- System Control & Media Access
- Interoperability with existing Data Links
- SpectrumAvailability
- Inexpensive
  Installation











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